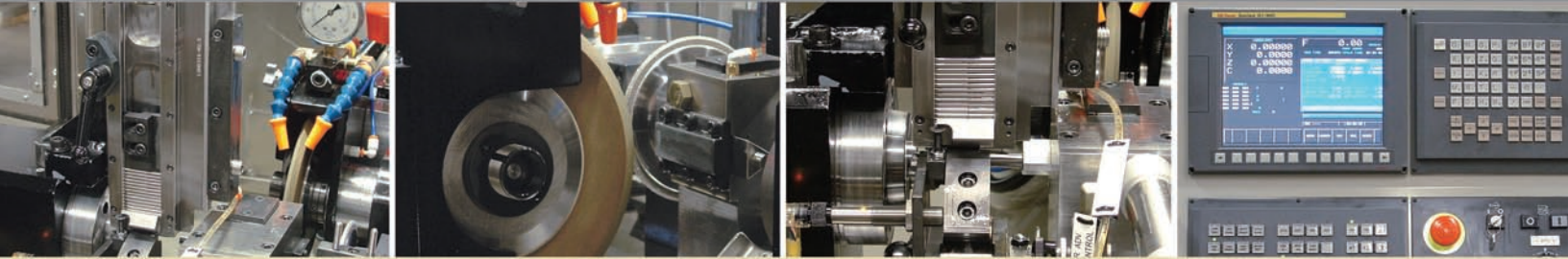


Introducing ...

DRAKE GS:TEM "MINI"



With magazine loader

3-Axis External Thread Grinder

A new MINI thread grinder that delivers BIG performance!

With a work envelope of just 100 mm x 100 mm, Drake's new GS:TEM Thread External Mini grinder is aimed at higher volume, precision threaded parts manufacturers in the cutting tool, automotive, aerospace and medical equipment industries.

If you're grinding small taps, thread rolls, thread gages, worms, ballscrews, aerospace fasteners or surgical bone screws, this is the machine for you.

Packed with Drake's advanced grinding features

- **PartSmart™ Programming and process development.** Like all Drake grinders, the GS:TEM is fully programmed to run your parts before it leaves our shop floor. Just enter specific part variables and process information prompted by the menus to run your parts.
- **High mass, mineral filled, rigid steel shell base** dampens vibration and is thermally stable allowing you to run superabrasives with confidence.
- **Fanuc servo motors** with high resolution encoders and Heidenhain linear scales on positioning axes assure precision now and after many years of multi-shift operation.
- **Diamond roll contour dressing** – dress complex topping and non-topping wheel forms including full radius and gothic arch; acme with crest and root radii or chamfers as well as 60°, Whitworth, ISO, buttress and other thread forms.
- **Reliable CNC diagnostics** and simplified mechanical systems keep maintenance to a minimum. But if something does go wrong, Drake's service is unparalleled. In short, *"You crash, we dash!"*

Typical parts produced on the GS:TEM MINI



Drake
MANUFACTURING



GS:TEM MINI ...

Parts out your door from day one!

Automatic Magazine Loader System

The automatic rocker style magazine loader is integrated with the CNC system. Drake includes auto load magazines for any two part numbers.

Cell-friendly footprint

With a cell-friendly footprint, the GS:TEM is easily integrated into manufacturing cells. Only 1.2 m wide x 1.8 m deep and weighing 3,000 kg, the GS:TEM can be moved around the shop easily with a forklift.

PartSmart™ Menu Driven Screens

Operator simply fills in the values for each part. No in-house programming required!

Typical PartSmart™ Menu Entries

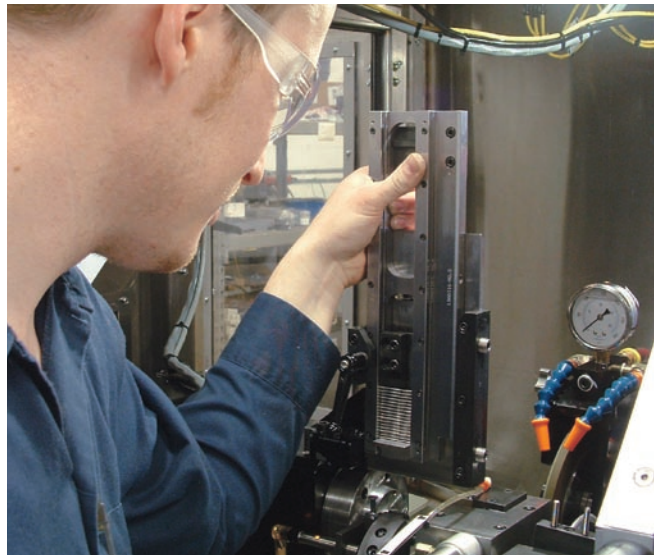
NUMBER OF STARTS	00	LEAD	00.00000
THREAD HAND	L/R	THREAD LENGTH	00.00
BLANK O.D.	0.0000	SIZE COMP	0.00000
TOTAL DEPTH	0.0000	TAPER COMP	0.00000
WHEEL DIAMETER	00.00	FINISH STOCK	0.0000
ROUGH PASSES	00	FINISH PASSES	00
ROUGH WHEEL m/s	00000	FINISH WHEEL m/s	00000
ROUGH WORK mm/m	000	FINISH WORK mm/m	00
DRESS COUNT	00	DRESS WHEEL m/s	0000
DRESS AMOUNT	0.0000	DRESS FEED mm/m	00
ROOT RADIUS	0.000	ROOT FLAT	0.000
CREST RADIUS	0.000		

GS:TEM MINI Specifications

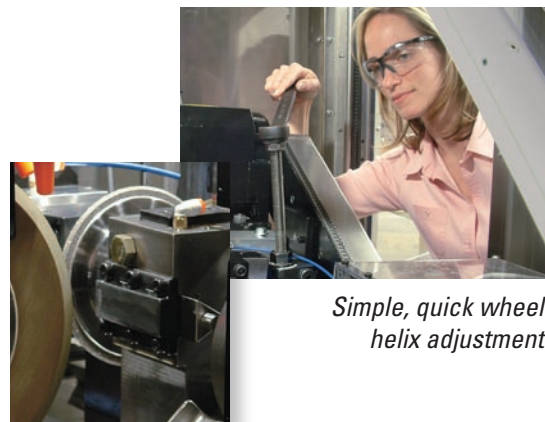
Axis	Description	Standard	Speed
X	Wheel Feed	100 mm (4")	10 m/min
	Max Part Dia. Auto Load	10 mm (0.4")	
Z	Grind Length	100 mm (4")	10 m/min
	Max Part Length	100 mm (4")	
A	Wheel Helix	±10°	Manual
C	Work Rotation	10:1	300 rpm
	Spindle	5.5 kW (7.5 hp)	10,000 rpm
	Wheel Size	205 mm OD x 76.2 mm ID	

GS:TEM MINI Dimensions

Overall machine	1.2 m W x 1.8 m D
Coolant discharge height	0.4 m above floor
Part loading height	1.0 m above floor
Approximate shipping weight	3,000 kg



The loader is capable of handling part lengths up to 100 mm and 3 mm to 10 mm diameter with appropriate tooling.



Simple, quick wheel helix adjustment

Diamond Roll
Contour Dresser
with optional Touch
Dress™ AEM system

ISO 9001:2000 Certified Quality System



MANUFACTURING

Better Parts Faster.™

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